

PATENT COOPERATION TREATY

PCT/JP2003/000633

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Translation

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 663585	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/000633	International filing date (day/month/year) 24 January 2003 (24.01.2003)	Priority date (day/month/year) 28 January 2002 (28.01.2002)
International Patent Classification (IPC) or national classification and IPC F02M 21/02		
Applicant YANMAR CO., LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 14 August 2003 (14.08.2003)	Date of completion of this report 08 April 2004 (08.04.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/000633

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the drawings:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

- These elements were available or furnished to this Authority in the following language _____ which is:
- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/00633

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2, 3	YES
	Claim	1	NO
Inventive step (IS)	Claims		YES
	Claims	1-3	NO
Industrial applicability (IA)	Claims	1-3	YES
	Claims		NO

2. Citations and explanations

Claim 1

Document 1 [JP, 2001-214811, A (NIIGATA ENGINEERING CO., LTD.), 10 August 2001] and document 2 [Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 144251/1982 (Laid-open No. 47388/1984) (NISSAN DIESEL MOTOR CO., LTD.), 29 March 1984] describe a fuel feed device for a gas engine that utilizes a negative pressure generated in the intake port in an intake stroke to supply fuel gas to inside the intake port.

The subject matter of claim 1 is not novel on account of the aforesaid documents 1 and 2 cited in the ISR.

Claim 2

Document 3 [JP, 2001-3774, A (TOKYO GAS CO., LTD.), 09 January 2001] describes a fuel feed device for a gas engine that is provided with an adjustment means for adjusting the fuel gas supply timing per one cycle so as constrain the number of engine revolutions to within a predetermined range.

The subject matter of claim 2 does not involve an inventive step on account of the aforesaid documents 1, 2, and 3 cited in the ISR. Employing the structure described in document 3 in the fuel feed device described in document 1 or 2 could easily be conceived by a person skilled in the art.

Claim 3

Document 4 [JP, 9-250401, A (NIPPON CARBURETER CO., LTD.), 22 September 1997] describes a fuel feed device for a gas engine that is provided with a switching means for switching a regulator's pressure balance line and making it communicate with either the inside of an intake channel or the atmosphere; when starting, the aforesaid pressure balance line is made to communicate with the inside of the intake channel by the switching means.

The subject matter of claim 3 does not involve an inventive step on account of the aforesaid documents 1, 2 and 4 cited in the ISR. Employing the structure described in document 4 in the fuel feed device described in document 1 or 2 could easily be conceived by a person skilled in the art.